

Other Engine Equipment Manufacturing: 2002

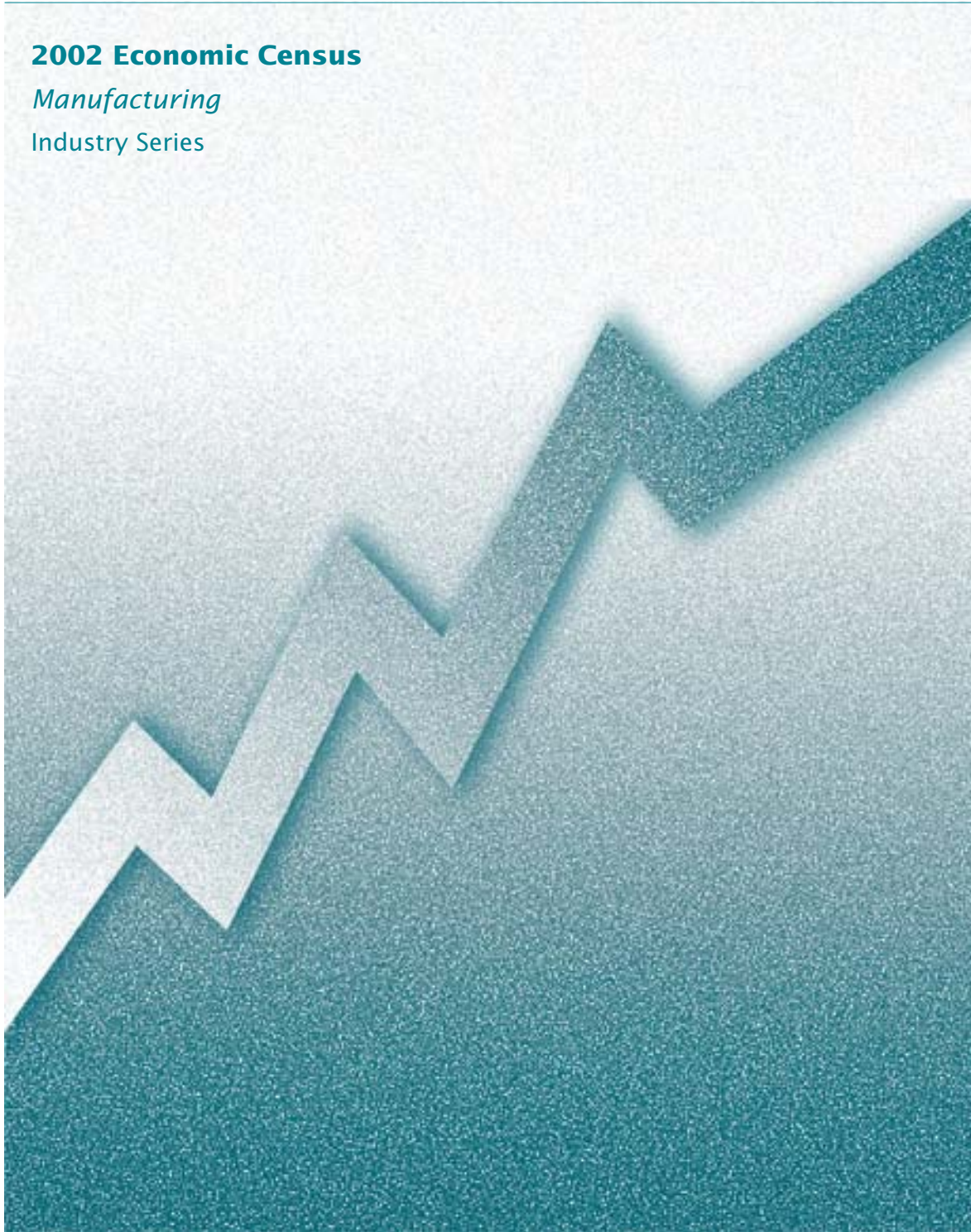
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2002 Economic Census

Manufacturing

Industry Series



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CONTENTS

Introduction to the Economic Census	v
Manufacturing	ix

Tables

1. Historical Statistics for the Industry: 2002 and Earlier Years ...	1
2. Industry Statistics for Selected States: 2002	2
3. Detailed Statistics by Industry: 2002	3
4. Industry Statistics by Employment Size: 2002.....	4
5. Industry Statistics by Primary Product Class Specialization: 2002	5
6a. Products Statistics: 2002 and 1997	6
6b. Product Class Shipments for Selected States: 2002 and 1997 .	8
7. Materials Consumed by Kind: 2002 and 1997.....	9

Appendixes

A. Explanation of Terms	A-1
B. NAICS Codes, Titles, and Descriptions	B-1
C. Methodology	C-1
D. Geographic Notes	--
E. Metropolitan and Micropolitan Statistical Areas	--
F. Comparability of Product Classes and Product Codes: 2002 to 1997	F-1

-- Not applicable for this report.

Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry and year ¹	Com- panies ²	All estab- lish- ments ³	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)	
			Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)					
333618, Other engine equipment manufacturing	2002..	266	317	47 993	2 144 761	34 698	68 657	1 258 529	6 764 272	11 800 032	18 585 895	754 815
	2001..	N	N	51 634	2 313 298	34 642	70 246	1 304 826	9 473 173	9 774 233	19 417 355	692 187
	2000..	N	N	59 294	2 630 226	40 921	84 109	1 540 845	9 086 054	12 270 568	21 177 768	875 788
	1999..	N	N	59 221	2 690 589	41 102	86 292	1 599 772	10 204 770	12 426 610	22 537 630	794 746
	1998..	N	N	56 839	2 471 072	40 786	83 919	1 578 113	8 376 755	11 962 640	20 311 809	681 814
	1997..	245	301	56 820	2 374 438	41 354	82 021	1 512 801	8 340 681	10 539 355	19 011 085	630 678

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

Industry and geographic area	E ¹	All establishments ²		All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
		Total	With 20 employees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
333618, Other engine equipment manufacturing												
United States	—	317	155	47 993	2 144 761	34 698	68 657	1 258 529	6 764 272	11 800 032	18 585 895	754 815
California	5	31	9	951	35 449	705	1 802	20 869	94 247	74 324	166 805	9 328
Connecticut	1	3	3	1 306	66 671	889	1 801	40 506	189 268	79 332	267 722	6 857
Florida	1	22	7	327	15 504	204	467	6 731	38 603	52 406	95 549	2 539
Georgia	—	7	6	2 146	65 632	1 877	3 638	51 346	226 126	425 817	637 713	23 805
Illinois	—	20	14	6 238	276 897	4 266	7 709	124 810	1 133 835	1 571 687	2 662 185	97 497
Indiana	—	20	14	5 788	280 134	4 332	7 579	186 089	1 055 648	2 410 081	3 422 095	115 608
Kentucky	—	5	4	1 213	39 519	1 094	1 837	31 711	67 988	216 401	297 510	4 160
Michigan	—	23	15	6 052	336 172	3 406	8 241	151 012	978 534	1 254 424	2 250 256	109 625
Missouri	—	12	7	2 738	81 168	2 359	3 934	62 045	205 281	559 922	743 088	22 682
North Carolina	—	12	6	2 205	93 211	1 673	3 791	61 337	281 858	549 211	834 198	31 941
Texas	5	10	3	138	5 287	99	184	3 368	13 568	10 475	24 118	919
Wisconsin	1	18	11	5 998	297 593	4 434	7 544	174 510	661 959	958 307	1 732 811	76 864

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
333618, Other engine equipment manufacturing	
Companies ¹	number.. 266
All establishments ²	number.. 317
Establishments with 1 to 19 employees	number.. 162
Establishments with 20 to 99 employees	number.. 72
Establishments with 100 employees or more	number.. 83
All employees ³	number.. 47 993
Total compensation	\$1,000.. 2 967 556
Annual payroll	\$1,000.. 2 144 761
Total fringe benefits	\$1,000.. 822 795
Production workers, average for year	number.. 34 698
Production workers on March 12	number.. 34 964
Production workers on May 12	number.. 34 849
Production workers on August 12	number.. 35 090
Production workers on November 12	number.. 33 850
Production worker hours	1,000.. 68 657
Production worker wages	\$1,000.. 1 258 529
Total cost of materials	\$1,000.. 11 800 032
Materials, parts, containers, packaging, etc., used	\$1,000.. 11 075 494
Resales	\$1,000.. 468 103
Purchased fuels	\$1,000.. 34 962
Purchased electricity	\$1,000.. 100 940
Contract work	\$1,000.. 120 533
Quantity of electricity purchased for heat and power	1,000 kWh.. 2 204 385
Quantity of electricity generated less sold for heat and power	1,000 kWh.. 26 403
Total value of shipments	\$1,000.. 18 585 895
Primary products value of shipments	\$1,000.. 17 097 664
Secondary products value of shipments	\$1,000.. 677 998
Total miscellaneous receipts	\$1,000.. 810 233
Value of resales	\$1,000.. 574 179
Contract receipts	\$1,000.. D
Other miscellaneous receipts	\$1,000.. D
Primary products specialization ratio	percent.. 96
Value of primary products shipments made in all industries	\$1,000.. 18 292 006
Value of primary products shipments made in this industry	\$1,000.. 17 097 664
Value of primary products shipments made in other industries	\$1,000.. 1 194 342
Coverage ratio	percent.. 93
Value added	\$1,000.. 6 764 272
Total inventories, beginning of year	\$1,000.. 1 881 565
Finished goods inventories	\$1,000.. 540 163
Work-in-process inventories	\$1,000.. 690 929
Materials and supplies inventories	\$1,000.. 650 473
Total inventories, end of year	\$1,000.. 1 965 652
Finished goods inventories	\$1,000.. 614 147
Work-in-process inventories	\$1,000.. 595 354
Materials and supplies inventories	\$1,000.. 756 151
Gross value of depreciable assets (acquisition costs) at beginning of year	\$1,000.. 7 490 357
Total capital expenditures (new and used)	\$1,000.. 754 815
Buildings and other structures (new and used)	\$1,000.. 60 377
Machinery and equipment (new and used)	\$1,000.. 694 438
Automobiles, trucks, etc., for highway use	\$1,000.. 32 379
Computers and peripheral data processing equipment	\$1,000.. 28 449
All other expenditures for machinery and equipment	\$1,000.. 633 610
Total retirements	\$1,000.. 735 644
Gross value of depreciable assets at end of year	\$1,000.. 7 509 528
Depreciation charges during year	\$1,000.. 519 326
Total rental payments	\$1,000.. 127 280
Buildings and other structures	\$1,000.. 29 968
Machinery and equipment	\$1,000.. 97 312
Total other expenses ⁴	\$1,000.. 1 094 501
Response coverage ratio ⁵	percent.. 94
Repair and maintenance services of buildings and/or machinery ⁴	\$1,000.. 130 649
Communications services ⁴	\$1,000.. 17 088
Legal services ⁴	\$1,000.. 27 405
Accounting, auditing, and bookkeeping services ⁴	\$1,000.. 5 382
Advertising and promotional services ⁴	\$1,000.. 25 538
Expensed computer hardware and supplies and purchased computer services ⁴	\$1,000.. 45 571
Refuse removal (including hazardous waste) services ⁴	\$1,000.. 13 691
Management consulting and administrative services ⁴	\$1,000.. 34 023
Taxes and license fees ⁴	\$1,000.. 26 009
All other expenses ⁴	\$1,000.. 769 195

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Based on Annual Survey of Manufactures (ASM) sample data.

⁵A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class	E ¹	All establishments ²	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)				
333618, Other engine equipment manufacturing											
All establishments	—	317	47 993	2 144 761	34 698	68 657	1 258 529	6 764 272	11 800 032	18 585 895	754 815
Establishments with—											
1 to 4 employees	1	90	178	7 486	133	257	5 180	157 208	60 406	227 110	2 953
5 to 9 employees	8	30	213	9 489	167	363	6 847	30 564	26 768	57 220	3 283
10 to 19 employees	2	42	606	27 288	425	1 110	16 375	105 705	83 084	188 986	7 023
20 to 49 employees	1	47	1 455	58 440	986	2 739	32 892	194 020	286 505	484 933	9 075
50 to 99 employees	—	25	1 867	65 406	1 248	2 413	33 720	178 041	226 573	408 457	20 092
100 to 249 employees	—	36	5 584	203 956	4 105	10 005	127 701	598 334	1 092 393	1 722 698	56 252
250 to 499 employees	—	18	6 718	258 784	5 043	10 351	156 273	877 078	1 279 992	2 134 667	190 901
500 to 999 employees	—	17	12 302	527 739	9 190	18 320	335 402	1 594 825	3 289 978	4 881 922	91 215
1,000 to 2,499 employees	—	10	j	D	D	D	D	D	D	D	D
2,500 employees or more	—	2	i	D	D	D	D	D	D	D	D
Administrative records ⁴	7	114	511	23 994	373	748	16 338	90 129	75 269	164 682	10 161

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1—10 to 19 percent; 2—20 to 29 percent; 3—30 to 39 percent; 4—40 to 49 percent; 5—50 to 59 percent; 6—60 to 69 percent; 7—70 to 79 percent; 8—80 to 89 percent; 9—90 percent or more.

²Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or product class code	Industry or primary product class	All establishments ¹	All employees		Production workers			Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expenditures (\$1,000)
			Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)				
333618	Other engine equipment manufacturing	317	47 993	2 144 761	34 698	68 657	1 258 529	6 764 272	11 800 032	18 585 895	754 815
3336181	Gasoline and gas-gasoline engines (except aircraft, automobile, highway truck, bus, tank, and outboard marine)	25	8 524	305 564	7 381	11 288	212 917	591 656	1 724 489	2 429 582	67 440
3336183	Diesel, semidiesel, and dual-fuel engines (except automobile, highway truck, bus, and tank)	16	4 355	214 971	2 432	4 758	96 216	716 534	1 287 118	2 003 376	58 529
3336185	Diesel, semidiesel, and dual-fuel engines for automobiles, highway trucks, and buses	20	14 935	743 330	10 969	20 600	441 110	2 748 337	5 998 801	8 659 827	311 142
3336189	Piston-type natural gas engines, including LPG (liquefied petroleum gas) engines (excluding gas turbines)	4	958	51 847	519	1 730	26 398	95 905	112 200	223 079	D
333618B	All other miscellaneous engine equipment	16	2 550	114 798	1 809	3 340	67 188	398 685	521 726	917 987	D
333618F	Parts and accessories for internal combustion engines, except aircraft and gas automotive engines and turbines	93	15 572	667 532	10 796	25 280	384 630	2 085 131	2 058 305	4 126 339	255 412

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6a. Products Statistics: 2002 and 1997

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
333618	Other engine equipment manufacturing	2002.. N 1997.. N	X X	X X	18 292 006 18 651 316
3336181	Gasoline and gas-gasoline engines (except aircraft, automobile, highway truck, bus, tank, and outboard marine)	2002.. N 1997.. N	X X	X X	2 276 278 2 438 511
33361811	Gasoline and gas-gasoline engines (except aircraft, automobile, highway truck, bus, tank, and outboard marine)	2002.. N 1997.. N	X X	X X	2 276 278 2 438 511
3336181100	Gasoline and gas-gasoline engines (except aircraft, automobile, highway truck, bus, tank, and outboard marine) ¹	2002.. 22 1997.. 20	X X	X X	2 276 278 2 438 511
3336183	Diesel, semidiesel, and dual-fuel engines (except automobile, highway truck, bus, and tank)	2002.. N 1997.. N	X X	X X	2 769 467 3 251 257
33361831	Diesel, semidiesel, and dual-fuel engines (except automobile, highway truck, bus, and tank)	2002.. N 1997.. N	X X	X X	2 769 467 3 251 257
3336183100	Diesel, semidiesel, and dual-fuel engines (except automobile, highway truck, bus, and tank) ¹	2002.. 25 1997.. 20	X X	X X	2 769 467 3 251 257
3336185	Diesel, semidiesel, and dual-fuel engines for automobiles, highway trucks, and buses	2002.. N 1997.. N	X X	X X	6 566 614 6 401 731
33361851	Diesel, semidiesel, and dual-fuel engines for automobiles, highway trucks, and buses	2002.. N 1997.. N	X X	X X	6 566 614 6 401 731
3336185100	Diesel, semidiesel, and dual-fuel engines for automobiles, highway trucks, and buses ¹	2002.. 18 1997.. 24	X X	X X	6 566 614 6 401 731
3336189	Piston-type natural gas engines, including LPG (liquefied petroleum gas) engines (excluding gas turbines)	2002.. N 1997.. N	X X	X X	283 130 431 767
33361891	Piston-type natural gas engines, including LPG (liquefied petroleum gas) engines (excluding gas turbines)	2002.. N 1997.. N	X X	X X	283 130 431 767
3336189100	Piston-type natural gas engines, including LPG (liquefied petroleum gas) engines (excluding gas turbines)	2002.. 9 1997.. 8	X X	X X	283 130 431 767
333618B	All other miscellaneous engine equipment.	2002.. N 1997.. N	X X	X X	1 025 206 N
333618B1	All other miscellaneous engine equipment.	2002.. N 1997.. N	X X	X X	1 023 862 N
333618B101	Tank engines, except gas turbines	2002.. — 1997.. N	X X	X X	— N
333618B106	Converted internal combustion engines (basic engines, short blocks purchased or intracompany transfer and converted to marine or other uses)	2002.. 3 1997.. N	X X	X X	D N
333618B108	Outboard motors (including electric)	2002.. 8 1997.. N	X X	X X	756 653 N
333618B110	All other miscellaneous engine equipment.	2002.. 12 1997.. N	X X	X X	D N
333618BY	All other miscellaneous engine equipment, nsk	2002.. N 1997.. N	X X	X X	1 344 N
333618BYWV	All other miscellaneous engine equipment, nsk	2002.. N 1997.. N	X X	X X	1 344 N
333618F	Parts and accessories for internal combustion engines, except aircraft and gas automotive engines and turbines	2002.. N 1997.. N	X X	X X	5 175 809 4 311 222
333618F1	Electrical machinery, equipment, and supplies, excluding fuel injection system	2002.. N 1997.. N	X X	X X	4 169 566 3 591 876
333618F101	Connecting rods for internal combustion engines, except aircraft and gasoline automotive engines and gas turbines	2002.. 16 1997.. 16	X X	X X	65 323 54 710
333618F106	Engine crankshafts for internal combustion engines, except aircraft and gasoline automotive engines and gas turbines	2002.. 17 1997.. 20	X X	X X	35 565 145 392
333618F111	Engine camshafts for internal combustion engines, except aircraft and gasoline automotive engines and gas turbines	2002.. 14 1997.. 16	X X	X X	165 412 137 169
333618F116	Flywheels for internal combustion engines, except aircraft and gasoline automotive engines and gas turbines	2002.. 11 1997.. 15	X X	X X	39 700 60 305
333618F121	Main (crankshaft) engine bearings (halves) for internal combustion engines, except aircraft and gasoline automotive engines and gas turbines	2002.. 4 1997.. 7	X X	X X	8 445 52 249
333618F126	Connecting rod bearings (halves) for internal combustion engines, except aircraft and gasoline automotive engines and gas turbines	2002.. 6 1997.. 9	X X	X X	12 705 D
333618F131	Other engine bearings (halves) (camshaft, balance shaft, etc.) for internal combustion engines, except aircraft and gasoline automotive engines and gas turbines	2002.. 5 1997.. 9	X X	X X	35 001 46 376
333618F136	Oil pumps, new, for internal combustion engines, except aircraft and gasoline automotive engines and gas turbines	2002.. 15 1997.. 16	X X	X X	62 668 67 242
333618F141	Fuel pumps, new, for internal combustion engines, except aircraft and gasoline automotive engines and gas turbines	2002.. 10	X	X	98 304

See footnotes at end of table.

Table 6a. **Products Statistics: 2002 and 1997—Con.**

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Product code	Product	Number of companies with shipments of \$100,000 or more	Quantity of production for all purposes	Product shipments	
				Quantity	Value (\$1,000)
333618	Other engine equipment manufacturing—Con.				
333618F	Parts and accessories for internal combustion engines, except aircraft and gas automotive engines and turbines—Con.				
333618F1	Electrical machinery, equipment, and supplies, excluding fuel injection system—Con.				
333618F141	Fuel pumps, new, for internal combustion engines, except aircraft and gasoline automotive engines and gas turbines—Con.				
333618F146	Water pumps, new, for internal combustion engines, except aircraft and gasoline automotive engines and gas turbines	1997.. 11	X	X	D
333618F151	Engine blocks for internal combustion engines, except aircraft and gasoline automotive engines and gas turbines	2002.. 11 1997.. 11	X X	X X	96 954 61 210
333618F156	Cylinder liners (sleeves) for internal combustion engines, except aircraft and gasoline automotive engines and gas turbines	2002.. 15 1997.. 22	X X	X X	67 383 325 456
333618F161	Cylinder heads for internal combustion engines, except aircraft and gasoline automotive engines and gas turbines	2002.. 8 1997.. 23	X X	X X	46 202 299 727
333618F166	Intake manifolds and exhaust manifolds for internal combustion engines, except aircraft and gasoline automotive engines and gas turbines	2002.. 15 1997.. 20	X X	X X	396 458 307 127
333618F171	Valve guides, seats, and tappets for internal combustion engines, except aircraft and gasoline automotive engines and gas turbines	2002.. 22 1997.. 25	X X	X X	110 128 89 800
333618F176	Rocker arms and parts for internal combustion engines, except aircraft and gasoline automotive engines and gas turbines	2002.. 10 1997.. 17	X X	X X	63 582 19 665
333618F186	Engine speed governors for internal combustion engines, except aircraft and gasoline automotive engines and gas turbines	2002.. 10 1997.. 13	X X	X X	189 546 100 914
333618F196	Superchargers, including turbochargers, for internal combustion engines, except aircraft and gasoline automotive engines and gas turbines	2002.. 10 1997.. 13	X X	X X	189 546 100 167
333618F199	Other parts and accessories for internal combustion engines, except aircraft and gasoline automotive engines and gas turbines	2002.. 18 1997.. 15	X X	X X	414 531 395 403
333618F2	Fuel injection systems (multipoint) for internal combustion engines, except aircraft and gasoline automotive engines and gas turbines	2002.. 58 1997.. 88	X X	X X	2 122 804 1 177 146
333618F281	Fuel injection systems (multipoint) for internal combustion engines, except aircraft and gasoline automotive engines and gas turbines	2002.. N 1997.. N	X X	X X	956 539 719 346
333618FY	Parts and accessories for internal combustion engines, except aircraft and gas automotive engines and turbines, nsk	2002.. 16 1997.. 15	X X	X X	956 539 719 346
333618FYWV	Parts and accessories for internal combustion engines, except aircraft and gas automotive engines and turbines, nsk	2002.. N 1997.. N	X X	X X	49 704 —
333618W	Other engine equipment manufacturing, nsk, total	2002.. N 1997.. N	X X	X X	195 502 100 516
333618WY	Other engine equipment manufacturing, nsk, total	2002.. N 1997.. N	X X	X X	195 502 100 516
333618WYWW	Other engine equipment manufacturing, nsk, for nonadministrative-record establishments	2002.. N 1997.. N	X X	X X	73 761 46 388
333618WYWY	Other engine equipment manufacturing, nsk, for administrative-record establishments	2002.. N 1997.. N	X X	X X	121 741 54 128

¹For additional detail, see Current Industrial Report MA333L, Internal Combustion Engines.

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p—10 to 19 percent estimated; q—20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. Product Class Shipments for Selected States: 2002 and 1997

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3336181	Gasoline and gas-gasoline engines (except aircraft, automobile, highway truck, bus, tank, and outboard marine)	
	United States..... 2002..	2 276 278
	..... 1997..	2 438 511
	Wisconsin..... 2002..	517 962
	..... 1997..	1 130 980
3336183	Diesel, semidiesel, and dual-fuel engines (except automobile, highway truck, bus, and tank)	
	United States..... 2002..	2 769 467
	..... 1997..	3 251 257
3336185	Diesel, semidiesel, and dual-fuel engines for automobiles, highway trucks, and buses	
	United States..... 2002..	6 566 614
	..... 1997..	6 401 731
3336189	Piston-type natural gas engines, including LPG (liquefied petroleum gas) engines (excluding gas turbines)	
	United States..... 2002..	283 130
	..... 1997..	431 767
333618B	All other miscellaneous engine equipment	
	United States..... 2002..	1 025 206
	..... 1997..	N
333618F	Parts and accessories for internal combustion engines, except aircraft and gas automotive engines and turbines	
	United States..... 2002..	5 175 809
	..... 1997..	4 311 222
	California..... 2002..	122 343
	..... 1997..	297 141
	Connecticut..... 2002..	218 456
	..... 1997..	N
	Florida..... 2002..	12 505
	..... 1997..	N
	Illinois..... 2002..	685 084
	..... 1997..	617 583
	Indiana..... 2002..	317 550
	..... 1997..	302 768
	Kentucky..... 2002..	89 560
	..... 1997..	N
	Michigan..... 2002..	1 343 752
	..... 1997..	728 379
	Missouri..... 2002..	22 945
	..... 1997..	N
	North Carolina..... 2002..	317 512
	..... 1997..	298 705
	Texas..... 2002..	5 442
	..... 1997..	N
	Wisconsin..... 2002..	184 628
	..... 1997..	392 374

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
333618	Other engine equipment manufacturing		
00900001	Total materials .....2002..	X	11 075 494
	.....1997..	X	10 093 338
33399601	Fluid power pumps, motors, and hydrostatic transmissions (hydraulic and pneumatic) .....2002..	X	198 420
	.....1997..	X	474 655
33399501	Fluid power cylinders and rotary actuators (hydraulic and pneumatic) .....2002..	X	D
	.....1997..	X	50 545
33399901	Fluid power filters (hydraulic and pneumatic) .....2002..	X	99 227
	.....1997..	X	55 747
33291203	Fluid power hose and tube fittings and assemblies (hydraulic and pneumatic) .....2002..	X	71 997
	.....1997..	X	40 671
33291207	Fluid power valves (hydraulic and pneumatic) .....2002..	X	30 771
	.....1997..	X	18 535
33272203	Metal bolts, nuts, screws, washers, rivets, and other screw machine products .....2002..	X	193 502
	.....1997..	X	201 601
332000AC	Metal stampings .....2002..	X	41 556
	.....1997..	X	154 453
332000A1	Metal tanks, heat exchangers, steam condensers, and other boiler products (fabricated steel plate, and weldments) .....2002..	X	D
	.....1997..	X	161 268
33200099	Fabricated structural metal products (excluding forgings) .....2002..	X	38 460
	.....1997..	X	D
33200079	All other fabricated metal products (excluding forgings, castings, pumps, motors, hydrostatic transmissions, cylinders, rotary actuators, filters, valves, and hose and tube fittings) .....2002..	X	290 416
	.....1997..	X	592 825
33211101	Iron and steel forgings .....2002..	X	486 026
	.....1997..	X	558 185
33211201	Nonferrous forgings .....2002..	X	592
	.....1997..	X	D
33151001	Iron and steel castings (rough and semifinished) .....2002..	X	835 844
	.....1997..	X	1 574 339
33152005	Aluminum and aluminum-base alloy castings (rough and semifinished) .....2002..	X	300 980
	.....1997..	X	747 609
33152003	Other nonferrous metalcastings, rough and semifinished (excluding aluminum and aluminum-base alloy) .....2002..	X	70 895
	.....1997..	X	112 695
33120007	Steel bars, bar shapes, and plate (excluding castings, forgings, and fabricated metal products) .....2002..	X	85 903
	.....1997..	X	76 962
33120016	Steel sheet and strip (including tinplate) .....2002..	X	16 544
	.....1997..	X	N
33120033	All other steel shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	24 567
	.....1997..	X	83 419
331000AJ	Nonferrous metal shapes and forms (excluding castings, forgings, and fabricated metal products) .....2002..	X	4 495
	.....1997..	X	17 340
33631100	Pistons, piston rings, carburetors, and valves (intake and exhaust only) .....2002..	X	398 234
	.....1997..	X	779 546
33632200	Engine electrical equipment (including spark plugs, magnetos, generators, starters, etc.) .....2002..	X	390 990
	.....1997..	X	628 838
33531221	Integral horsepower electric motors and generators (1 hp or more) .....2002..	X	1 953
	.....1997..	X	D
33361813	Turbochargers .....2002..	X	277 450
	.....1997..	X	N
33361815	Injection fuel pumps .....2002..	X	616 324
	.....1997..	X	N
33361817	Machined engine blocks .....2002..	X	377 191
	.....1997..	X	N
33299105	Ball bearings (mounted or unmounted) .....2002..	X	12 082
	.....1997..	X	18 127
33299103	Roller bearings (mounted or unmounted) .....2002..	X	7 983
	.....1997..	X	23 206
33361301	Plain bearings and bushings .....2002..	X	83 704
	.....1997..	X	68 181
33361200	Mechanical speed changers, gears, and industrial high-speed drives .....2002..	X	112 076
	.....1997..	X	262 801
33361103	Generators purchased for incorporation into turbine generator sets .....2002..	X	D
	.....1997..	X	D
33999103	Gaskets (all types), and packing and sealing devices .....2002..	X	95 186
	.....1997..	X	N
32610011	Fabricated plastics products (excluding gaskets) .....2002..	X	61 045
	.....1997..	X	62 195
32622001	Rubber and plastics hose and belting .....2002..	X	44 878
	.....1997..	X	54 819
33351503	Cutting tools for machine tools .....2002..	X	123 354
	.....1997..	X	59 843
00970099	All other materials and components, parts, containers, and supplies .....2002..	X	4 993 611
	.....1997..	X	2 439 703
00971000	Materials, ingredients, containers, and supplies, nsk .....2002..	X	541 352
	.....1997..	X	551 460

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.